

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 05/30/2018 10:15 AM  
**Cytometer Baseline:** 05/12/2018 04:21 PM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 80291 **Expiration Date:** 02/29/2020  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 124289              | -1                        | 1.42                    | 124380                  | 1.42                 |
| Blue   | F        | SSC         | 125000       | 124519              | -1                        | 2.26                    | 125204                  | 2.18                 |
| Blue   | E        | FITC        | 15760        | 15276               | -4                        | 2.97                    | 330                     | 22.33                |
| Blue   | D        | PE          | 25880        | 25275               | -3                        | 2.04                    | 550                     | 17.14                |
| Blue   | B        | PerCP-Cy5-5 | 34075        | 34195               | 0                         | 4.19                    | 1045                    | 22.36                |
| Blue   | A        | PE-Cy7      | 22776        | 23311               | 2                         | 7.35                    | 564                     | 43.61                |
| Red    | C        | APC         | 42488        | 41352               | -3                        | 2.66                    | 1569                    | 13.13                |
| Red    | A        | APC-Cy7     | 24478        | 23975               | -3                        | 2.75                    | 821                     | 13.19                |
| Violet | B        | V450        | 6304         | 6235                | -2                        | 4.19                    | 354                     | 16.38                |
| Violet | A        | V500        | 26005        | 25271               | -3                        | 3.79                    | 592                     | 12.50                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 21127                   | 5.75                 | 605  | 8      | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 56305                   | 1.76                 | 569  | 14     | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 58                      | 74.13                | 560  | 4      | 0.0159 | 190  | Pass |
| Blue   | D        | PE          | 114                     | 55.37                | 554  | 5      | 0.1068 | 200  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 199                     | 53.54                | 655  | 8      | 0.0075 | 49   | Pass |
| Blue   | A        | PE-Cy7      | 110                     | 109.34               | 709  | 12     | 0.0099 | 32   | Pass |
| Red    | C        | APC         | 372                     | 27.68                | 600  | 0      | 0.0205 | 143  | Pass |
| Red    | A        | APC-Cy7     | 202                     | 28.45                | 572  | 1      | 0.0045 | 671  | Pass |
| Violet | B        | V450        | 59                      | 70.48                | 484  | -5     | 0.0311 | 2205 | Pass |
| Violet | A        | V500        | 89                      | 40.73                | 500  | -6     | 0.0143 | 741  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

# Cytometer Performance Report

Cytometer: FACSCantoII  
Cytometer Name: FACSCantoII  
Serial Number: V33896201821  
Input Device: Carousel  
Tube Loaded Manually: Yes  
Cytometer Configuration: Euroflow 3-laser, 8-color (4-2-2)

User: Administrator  
Institution: N/A  
Software: BD FACSDiva 8.0.2  
Date: 05/30/2018 10:15 AM  
Cytometer Baseline: 05/12/2018 04:21 PM  
P/F: Pass

## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                     | -32.04                 | -31.47                          | 0.98                |
| Blue   | 20.35      | 16.27 - 24.41    | 1.28         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.38                |
| Red    | 16.54      | 13.60 - 20.40    | N/A          | N/A                     | 31.28                  | 31.93                           | 1.18                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 12008

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments